

Petroleum Production Technology

Associate in Applied Science Curriculum Guide 2015-2016

Semester I							
Prescri	bed Tech	nical Program Requirements					
ENRT	101	Introduction to Energy Technology		4			
ENRT	105	Safety, Health & Environment		3			
ENRT	107	Mechanical Fundamentals		2			
ENRT	112	Print Reading		3			
			Total Credits	12			

Semester II								
Prescril	bed Tech	nical Program Requirements						
PROD	110	Fundamentals of the Petroleum Industry		4				
ENRT	103	Applied Math		3				
ENRT	104	Electrical Fundamentals		3				
ENRT	116	Instrumentation & Control		4				
			Total Credits	14				

Semester III						
Prescri	bed Tecl	hnical Program Requirements				
PROD	220	Production Equipment	4			
PROD	230	Well Services	3			
PROD	240	Artificial Lift & Enhanced Oil Recovery	2			
ENRT	215	Operations, Troubleshooting & Communications	3			
		Total Credits	12			

Prescribed Technical Program Total	50
General Education Total	15
Total Degree Credits	65

Seme	ster IV		
Prescril	bed Tech	nical Program Requirements	
PROP	235	Hydrocarbon Chemistry	3
PROD	250	Production Safety, Health & Environment	4
PROP	239	Gas Processing	3
ENRT	220	Practical Applications	2
		– Total Credits	12

Gener	General Education Requirements						
Arts & H	luman	ities/Social & Behavioral Sciences					
1.			3				
Busines	s, Mat	h, Science & Technology (Two areas of study required.)					
1.			3				
2.			3				
Commu	nicatio	ns l					
ENGL	110	College Composition I (Required)	3				
Commu	nicatio	ons II (Select one course.)					
ENGL	120	College Composition II					
ENGL	125	Introduction to Professional Writing	3				
COMM	110	Fundamentals of Public Speaking					
		Total Credits	15				

Associate in Applied Science (AAS)	Advisor:				
	Office:				
	Phone:				
	Email:				
Degree Checklist					
Credits					
Earned a minimum of 3 credits in ENGL 110	Earned a minimum of 15 institutional credit (BSC only)				
Earned a minimum of 3 credits in ENGL 120, 125 or COMM 110	Earned a minimum 2.00 institutional GPA (BSC only)				
Earned a minimum of 3 credits in Arts & Humanities/Social & Behavioral Science	Earned a minimum 2.00 cumulative GPA (BSC + Transfer)				
Earned a minimum of 6 credits in Business, Math, Science & Technology	Earned a minimum 2.00 GPA in a prescribed technical program				
Earned prescribed technical program requirements	Cleared all college obligations				
	Declared program of study is Degree-seeking				
Earned a minimum of 60 total credits	Filed an Application for Degree				
-Academic Skills Courses (ASC) do not apply toward graduation.					
	Logand				
	Legend (*) Course not approved as GERTA				
General Education Requirements					
Category I: COMMUNICATIONS	Completed Needed				
Communications I					
(3 Credits) - ENGL 110					
Gr. Cr. 3 ENGL 110 College Composition I					
Transfer Course					

Communications II

(3 Credits) -ENGL 120, 125, COMM 110 (Select one)							
Gr. Cr.							
3	ENGL 120	College Composition II					
3	ENGL 125	Introduction to Professional Writing					
3	COMM 110	Fundamentals of Public Speaking					
Transfer Cours		runuamentais of rubiic speaking					

General Education Requirements Continued

Category II: ARTS & HUMANITES/SOCIAL & BEHAVIORAL SCIENCES

ategory II	: ARTS & H	UMANITES/SOCIAL & BEHAV	ORAL SCIEN	CES		Co	mpleted	Needed
Credits)								
ir. Cr.			Gr. Cr.			Gr. Cr.		
3	ART 110	Introduction to the Visual Art	3	HIST 101	Western Civilization I	3	POLS 115	American Government
3	ART 122	Two Dimensional Design	3	HIST 102	Western Civilization II	3	POLS 116	State & Local Government
3	ART 124	Three Dimensional Design	3	HIST 103	United States to 1877	3	POLS 220	International Politics
3	ART 130	Drawing I	3	HIST 104	United States since 1877	3	PSYC 111	Introduction to Psychology
3	ART 210	Art History I	3	HIST 220	North Dakota History	3	* PSYC 211	Introduction to Behavior Modification
3	ART 211	Art History II	3	HIST 222	History of the Western Frontier	3	PSYC 250	Developmental Psychology
3	ART 220	Painting I	3	HIST 224	American Studies I	3	* PSYC 261	Psychology of Adjustment
3	ART 221	Painting II	3	HIST 225	American Studies II	3	PSYC 270	Abnormal Psychology
3	ART 230	Drawing II	1-3	* HIST 243	Historical Investigations	3	RELS 120	Religion in America
3	ART 250	Ceramics I	3	HUMS 210	Integrated Cultural Studies	3	RELS 201	Life & Letters of Paul
3	ART 251	Ceramics II	1-4	HUMS 211	Integrated Cultural Excursion	3	RELS 203	World Religions
2	ART 265	Sculpture I	2	HUMS 212	Integrated Cultural Enrichment	3	RELS 220	Old Testament
2	ART 266	Sculpture II	3	MUSC 100	Music Appreciation	3	RELS 230	New Testament
3	CJ 201	Introduction to Criminal Justice	1	MUSC 117	Concert Choir	3	SOC 110	Introduction to Sociology
3	COMM 211	Oral Interpretation	1	MUSC 118	Chamber Choir	3	SOC 115	Social Problems
3 *	COMM 212	Interpersonal Communications	1	MUSC 121	String Ensemble	3	SOC 220	Family
3	ECON 105	Elements of Economics	1	MUSC 132	Wind Ensemble	3	SOC 221	Minority Relations
3	ECON 201	Principles of Microeconomics	1	MUSC 133	Woodwind Ensemble I	3	SOC 235	Cultural Diversity
3	ECON 202	Principles of Macroeconomics	1	MUSC 134	Woodwind Ensemble II	3	SOC 251	Gerontology
3	ENGL 211	Introduction to Creative Writing	1	MUSC 135	Brass Ensemble I	3	SOC 252	Criminology
3	ENGL 221	Introduction to Drama	1	MUSC 136	Brass Ensemble II	3	SOC 275	American Indian Studies
3	ENGL 222	Introduction to Poetry	1	MUSC 137	Jazz Ensemble	4	SPAN 101	First Year Spanish I
3	ENGL 233	Fantasy & Science Fiction	1	* MUSC 138	Percussion Ensemble	4	SPAN 102	First Year Spanish II
3	ENGL 236	Women & Literature	1	MUSC 145	Applied Music	4	SPAN 201	Second Year Spanish I
3	ENGL 238	Children's Literature	1	MUSC 146	Applied Music - Major	4	SPAN 202	Second Year Spanish II
3	ENGL 251	British Literature I	3	PHIL 101	Introduction to Philosophy	3	SWK 256	Development of Social Welfare
3	ENGL 252	British Literature II	3	PHIL 210	Ethics	3	THEA 110	Introduction to Theatre Arts
3	ENGL 261	American Literature I	3	PHIL 220	Introduction to Logic	3	THEA 161	Acting I
3	ENGL 262	American Literature II	3	PHIL 250	Philosophy in Cinema	3	THEA 261	Acting II
3	ENGL 278	Alternative Literature	3	* PHIL 253	Environmental Ethics			-
nsfer Course			Transfer Cou			Transfer Co		

S, MATH, SCIENCE & TECHNOL		<i>c</i>	Completed	Needed
ied with courses from two areas of stu		course prefix.		
5	'			Applied Calculus I
5				Calculus I
67.		, ,		Calculus II
		, ,,		Discrete Mathematics
0	'			Elementary Statistics
				Math for Elementary Teachers I
Organizational Behavior		General Chemistry II/Lab		Introductory Microbiology/Lab
Human Resource Management	4 * CIS 164	Networking Fundamentals	3 * NUTR 240	Principles of Nutrition
Introduction to Aquarium Keeping	3 CSCI 101	Introduction to Computers	3/1 PHYS 100	Concepts of Physics/Lab
Living World	3 CSCI 122	Beginning Visual Basic	3/1 PHYS 110	Introduction to Astronomy/Lab
Concepts of Biology/Lab	4 CSCI 160	Computer Science I	3/1 PHYS 211	College Physics I/Lab
Human Structure & Function/Lab	4 CSCI 161	Computer Science II	3/1 PHYS 212	College Physics II/Lab
Environmental Science	3/1 GEOG 121	Physical Geography/Lab	4/1 PHYS 251	University Physics I/Lab
Human Biology/Lab	3/1 GEOL 102	Historical Geology/Lab	4/1 PHYS 252	University Physics II/Lab
General Biology I/Lab	3/1 GEOL 105	Physical Geology/Lab	2/1 PLSC 110	World Food Crops/Lab
General Biology II/Lab	3 GIS 105	Fundamentals of GIS	3/1 SCNC 101	Physical Science I/Lab
Anatomy & Physiology I/Lab	3 * GIS 107	GIS Applications		Biology & Chemistry
Anatomy & Physiology II/Lab	4 MATH 103	College Algebra	3/1 SCNC 102	Physical Science II/Lab
Survey-Tropical Biology/Lab	3 MATH 104	Finite Math		Physics & Geology
Community Ecology/Lab	2 MATH 105	Trigonometry	3/1 SCNC 103	Physical Science III/Lab
Plant Form & Diversity/Lab	4 MATH 107	Pre-Calculus		Astronomy & Meteorology
Fundamentals of Business	3 * MATH 137	Applied Algebra	2/1 * SOIL 210	Introduction to Soil Science/Lab
	Elements of Accounting I Elements of Accounting II Meteorology/Lab Principles of Management Advertising I Sales Organizational Behavior Human Resource Management Introduction to Aquarium Keeping Living World Concepts of Biology/Lab Human Structure & Function/Lab Environmental Science Human Biology/Lab General Biology I/Lab General Biology I/Lab Anatomy & Physiology I/Lab Anatomy & Physiology I/Lab Survey-Tropical Biology/Lab Community Ecology/Lab	Gr. Cr.Elements of Accounting I3/1CHEM 110Elements of Accounting II3/1CHEM 112Meteorology/Lab3/1CHEM 114Principles of Management4/1CHEM 115Advertising I4/1CHEM 116Sales4/1CHEM 121Organizational Behavior4/1CHEM 122Human Resource Management4* CIS 164Introduction to Aquarium Keeping3CSCI 101Living World3CSCI 101Living World3CSCI 160Human Structure & Function/Lab4CSCI 161Environmental Science3/1GEOL 102General Biology I/Lab33/1General Biology I/Lab3% GIS 107Anatomy & Physiology I/Lab3MATH 103Survey-Tropical Biology/Lab2MATH 104	Elements of Accounting I3/1CHEM 110Survey of Chemistry/LabElements of Accounting II3/1CHEM 112Introduction to Forensic Science/LabMeteorology/Lab3/1CHEM 114Chemistry in Art/LabPrinciples of Management4/1CHEM 115Introductory Chemistry/LabAdvertising I4/1CHEM 116Intro to Organic & Biochemistry/LabSales4/1CHEM 121General Chemistry I/LabOrganizational Behavior4/1CHEM 122General Chemistry II/LabHuman Resource Management4* CIS 164Networking FundamentalsIntroduction to Aquarium Keeping3CSCI 101Introduction to ComputersLiving World3CSCI 160Computer Science IHuman Structure & Function/Lab4CSCI 161Computer Science IHuman Biology/Lab3/1GEOG 121Physical Geology/LabHuman Biology/Lab3/1GEOL 102Historical Geology/LabGeneral Biology I/Lab3% GIS 105Fundamentals of GISAnatomy & Physiology I/Lab3* GIS 107GIS ApplicationsAnatomy & Physiology I/Lab3MATH 103College AlgebraSurvey-Tropical Biology/Lab2MATH 105Trigonometry	Gr.Cr.Gr.Cr.Elements of Accounting I3/1CHEM 110Survey of Chemistry/Lab3MATH 146Elements of Accounting II3/1CHEM 112Introduction to Forensic Science/Lab4MATH 165Meteorology/Lab3/1CHEM 114Chemistry in Art/Lab4MATH 165Principles of Management4/1CHEM 115Introductory Chemistry/Lab3* MATH 208Advertising I4/1CHEM 115Introductory Chemistry/Lab3* MATH 208Sales4/1CHEM 121General Chemistry I/Lab4* MATH 277Organizational Behavior4/1CHEM 122General Chemistry I/Lab3/1MICR 202Human Resource Management4* CIS 164Networking Fundamentals3* NUTR 240Introduction to Aquarium Keeping3CSCI 101Introduction to Computers3/1PHYS 110Concepts of Biology/Lab4CSCI 160Computer Science I3/1PHYS 211Human Structure & Function/Lab3/1GEO 121Physical Geology/Lab4/1PHYS 252General Biology I/Lab3/1GEO 105Physical Geology/Lab2/1PLSC 110General Biology I/Lab3* GIS 105Fundamentals of GIS3/1SCNC 101Anatomy & Physiology I/Lab3* GIS 107GIS Applications3/1SCNC 102Survey-Tropical Biology/Lab3* GIS 107GIS Applications3/1SCNC 102Survey-Tropical Biology/Lab3

Academic Skills Courses (ASC)

The following Academic Skills Courses (ASC), as well as Math 102, are pre-college courses indicate the need for college preparation work before enrollment in college level courses. These courses will not carry honor points or earned credit and will not count toward the student's degree program.

Gr. Cr.			Gr. Cr.		
2	ASC 082	Effective Reading	2	ASC 92	Algebra Prep II
3	ASC 087	College Writing Prep	2	ASC 93	Algebra Prep III
1	ASC 088	Composition Lab	3/1	ASC 098	Basic Biology/Lab
2	ASC 91	Algebra Prep I			